Missouri Department of Natural Resources



PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: September 22, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, ATTN: Gary L. Gaines, P.E., Regional Director. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see <u>Curdt v. Mo. Clean Water Commission</u>, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by October 22, 2006 or received in our office by 5:00 p.m. on October 25, 2006. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm, or at the Department of Natural Resources, Southeast Regional Office, 2155 N. Westwood Blvd., Poplar Bluff, Missouri, 63901, between the hours of 8:00 a.m. and 5:00p.m., Monday through Friday.

Public Notice Date: September 22, 2006 Permit Number: MO-0093432 Southeast Regional Office				
FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER			
Greenville Wastewater Treatment Facility	City of Greenville			
Sycamore Street	P.O. Box 427			
Greenville, MO 63944	Greenville, MO 63944			
DECETATIVE CEREAM C LEGAL DECERTORION	TYPE OF DIGGIADGE			
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE			
Unnamed Trib. to St. Francois River (U)	Domestic, reissuance			
SW ¼, SE ¼, Sec 1, T28N, R5E, Wayne County				

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES



MISSOURISTATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0093432

Owner: City of Greenville

Address: P.O. Box 427, Greenville, MO 63944

Continuing Authority: Same as above Address: Same as above

Facility Name: Greenville Wastewater Treatment Facility

Address: 108 Walnut, Greenville, MO 63944

Legal Description: SW ¼, SE ¼, Sec. 1, T28N, R5E, Wayne County

Latitude/Longitude: +3707217/-09027042

Receiving Stream: Unnamed Tributary to St. Francois River (U)

First Classified Stream and ID: St. François River (P)(02835)

USGS Basin & Sub-watershed No.: (08020202-050003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - POTW - 92-500 - SIC #4952

Two cell aerated lagoon/two sand filters/chlorination/de-chlorination/sludge is retained in lagoon.

Design population equivalent is 1,070.

Design flow is 74,000 gallons per day.

Actual flow is 40,000 gallons per day.

Design sludge production is 16.1 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date	Doyle Childers, Director, Department of Natural Resources Executive Secretary, Clean Water Commission

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 2 of 5

PERMIT NUMBER MO-0093432

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until November 29, 2007. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL AND AND FEEL LIENT		FINAL EFFLUENT LIMITATIONS			MONITORING	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 Flow	MGD	* (*	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅ **	mg/Ł		68	45	once/month	grab
Total Suspended Solids**	fua (F)		20	80	once/month	grab
pH - Units	1 Jst C	***		***	once/month	grab
Ammonia as N	mg/A	*		*	once/month	grab
Temperature	.°c	*		*	once/month	grab
Oil and Grease	mg/L	15		10	once/month	grab
Fecal Coliform ****	#/100ml	1000		400	once/month	grab
Total Residual Chlorine (Note 1)	mg/L	1.0		1.0	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED $\underline{\mathtt{Monthly}}$; THE FIRST REPORT IS DUE ______. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective November 30, 2007 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

		FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfall #001 Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅ **	mg/L		65	45	once/month	grab
Total Suspended Solids**	mg/L		120	80	once/month	grab
pH - Units	SU	***		***	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Temperature	°C	*		*	once/month	grab
Oil and Grease	mg/L	15		10	once/month	grab
Fecal Coliform****	#/100 mL	1000		400	once/month	grab
Total Residual Chlorine (Note 1)	mg/L	.019 (.13ML)		.019 (.13ML)	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED Monthly; THE FIRST REPORT IS DUE ______. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED $\underline{\texttt{Parts}}$ I, II & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitor and report.
- ** This facility is required to meet a removal efficiency of 65% or more.
- *** pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.
- **** Final limitations and monitoring requirements for Fedal Coliform are applicable only during the recreational season from April 1 through October 31.

Note 1 - This permit contains a rotal Residual Chilprine (TRC) limit.

- (a) This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC mathods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500 Ct G. From Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- (b) Disinfection is required year-round unless the permit specifically states that "Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31." If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.
- (c) Do not chemically dechlorinate if it is not needed to meet the limits in your permit.
- (d) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as "0 mg/L" TRC.

C. SPECIAL CONDITIONS

- 1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- 2. All outfalls must be clearly marked in the field.
- 3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

C. SPECIAL CONDITIONS (continued)

Changes in Discharges of Toxic Substances

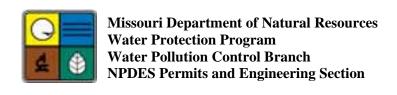
The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"

 - (1) One hundred micrograms per liter (100 $\mu g/L$); (2) Two hundred micrograms per liter (200 $\mu g/L$) for acrolein and acrylonitrile; five hundred micrograms per liter (500 kg/L) for 2,5 dinitrophenol and for 2-methyl-4 6 dinitrophenol and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- Report as no-discharge when a discharge does not occur during the report period.
- General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
- Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
 - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.

D. SCHEDULE OF COMPLIANCE

1. By November 29, 2007, install de-chlorination equipment submitted under construction permit application SE-04-33. Equipment was submitted and reviewed but not required at that time for installation but is required at this time.



	ty Review Sheet Check I rating Permit Renewal	List		
Facility Information Facility Nan Facility Typ	rmation ne: Greenville Wast	newater Treatment Facilly I lagoon/sand-filters/chld	rele-chlorination Age:	MO-0093432 31 Years
Outfall	Design Flow (MGD)	Actual Flow (MGD)	Aracteristics Actual Flow/Design Flow	
001	.074	.040	54%	
001	.074	.040	3470	
Total Suspend Percent Remo	Name: Unnamed T	In Compliance X In Compliance X In Compliance X t Frequency at regulatory n	rbody Information	
Discharge to Use Attainabi		a classified waterbody desi	0-7.031, Table J or as determined ignated for whole body contact reserved water quality impacts	
		vaterbody types below, is wanducted, this form is not ap	rithin an area experiencing rapid d plicable.	evelopment, or if a site-specific
Lake/Reserv Outstanding		rbody Metropolit e Water and Drainages T	an No-Discharge Stream ☐ Fhereto ☐	

Date of Fact Sheet: September 22, 2006

Date of Public Notice:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

FACT SHEET

This Fact Sheet explains the applicable regulations and rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0093432

FACILITY NAME: Greenville Wastewater Treatment Radillty

OWNER NAME: City of Greenville

LOCATION: Greenville, MO

RECEIVING STREAM: Unnamed Tributary to St. Francois River

FACILITY CONTACT PERSON: Mel√in Montgomery TEL (573) 224-3859

FACILITY DESCRIPTION AND RATIONALE

City of Greenville has a two cell aerated lagoon system followed by two sand filters. The facility currently utilizes chlorination to meet the disinfection rules since the St. Francois River is within two miles and is classified for whole body contact. The City does not de-chlorinate and a schedule of compliance has been added to install de-chlorination equipment. This is being required in order to meet acute standards for chlorine required in the unclassified stream. The St. Francois River has sufficient dilution to protect aquatic life and is currently not being impacted by chlorine residuals. Monitoring for temperature and ammonia are included to determine whether "reasonable potential" to exceed water quality standards exists. Permit will contain a "reopener clause" to address potential water quality issues should this or other monitoring or observations indicate water quality standards may be exceeded or if existing designated uses may be negatively impacted due either in whole or in part to this discharge.

Basis of Limits

pH - 10 CSR 20-7.015(8)(B).

<u>Ammonia as Nitrogen</u> - Monitoring Requirement Only.

 $\underline{\text{Fecal Coliform}}$ - 10 CSR 20-7.015(8)(B)4.A. Discharges within 2 miles of a classified water designated for Whole Body Contact Recreation. Operating permits issued following this rule will contain effluent limits for applicable bacteria criteria.

Total Residual Chlorine (TRC) - Effluent limitation for the protection of aquatic life against acute toxicity [10 CSR 20-7.031(3)]

<u>Settleable Solids</u> - Reasonable potential analysis indicates no reasonable potential to exceed applicable criteria for settleable solids, therefore the current effluent limit will be removed. Any potential of solids will be detected in the Total Suspened Solids test that will remain in the permit.

<u>Dissolved Oxygen</u> - Only one result of 42 samples was below the minimum dissolved oxygen level of 5.0~mg/L set by the water quality standards 10~CSR 20-Chapter 7.031. Sufficient data has been collected to demonstrate that the minimum standard is consistently maintained in the discharge, therefore, the Dissolved Oxygen monitoring will be removed from the permit.

Oil and Grease

Conventional pollutant, effluent limitations for protections of aquatic life.

This permit will be issued for a period of five years.